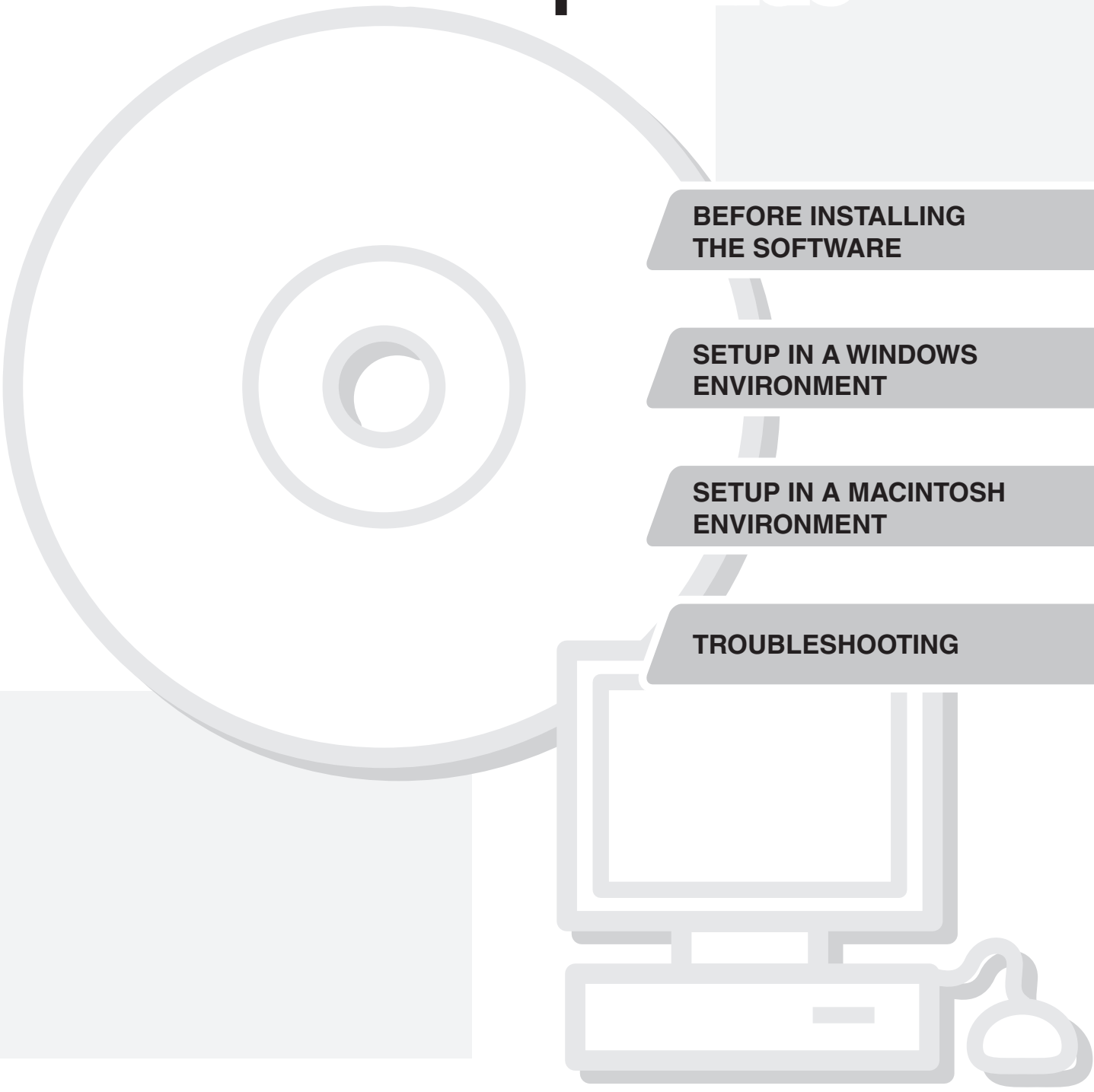
SHARP

Software Setup Guide



BEFORE INSTALLING THE SOFTWARE

SETUP IN A WINDOWS ENVIRONMENT

SETUP IN A MACINTOSH ENVIRONMENT

TROUBLESHOOTING

Thank you for purchasing this product. This manual explains how to install and configure the software that allows the machine to be used as a printer or scanner for a computer.
If the software is not installed correctly or you need to remove the software, see "4. TROUBLESHOOTING" (page 38).

Please note

- The explanations in this manual assume that you have a working knowledge of your Windows or Macintosh computer.
- For information on your operating system, please refer to your operating system manual or the online Help function.
- The explanations of screens and procedures in this manual are primarily for Windows 7® in Windows® environments, and Mac OS X v10.8 in Macintosh environments. The screens may vary depending on the version of the operating system.
- Wherever "MX-xxxx" appears in this manual, please substitute your model name for "xxxx".
- In some cases it may not be possible to use the software described in this manual. This depends on the model and the expansion kits that are installed.
- This manual contains references to the fax function. However, please note that the fax function is not available in some countries and regions.
- This manual contains explanations of the PC-Fax driver and PPD driver. However, please note that the PC-Fax driver and PPD driver are not available and do not appear on the software for installation in some countries and regions.
  In this case, please install the English version if you want to use these drivers.
- Considerable care has been taken in preparing this manual. If you have any comments or concerns about the manual, please contact your dealer or nearest authorized service representative.
- This product has undergone strict quality control and inspection procedures. In the unlikely event that a defect or other problem is discovered, please contact your dealer or nearest authorized service representative.
- Aside from instances provided for by law, SHARP is not responsible for failures occurring during the use of the product or its options, or failures due to incorrect operation of the product and its options, or other failures, or for any damage that occurs due to use of the product.

Warning

- Reproduction, adaptation or translation of the contents of the manual without prior written permission is prohibited, except as allowed under copyright laws.
- All information in this manual is subject to change without notice.
- The network cable or USB cable that is to be connected to this machine should be a shielded cable that is compliant with the specifications.

Illustrations and the operation panel and touch panel shown in this manual

The peripheral devices are generally optional, however, some models include certain peripheral devices as standard equipment. For some functions and procedures, the explanations assume that devices other than the above are installed.

The display screens, messages, and key names shown in the manual may differ from those on the actual machine due to product improvements and modifications.

SOFTWARE LICENSE

The SOFTWARE LICENSE will appear when you install the software from the CD-ROM. By using all or any portion of the software on the CD-ROM or in the machine, you are agreeing to be bound by the terms of the SOFTWARE LICENSE.

The explanations in this manual are based on American English and the North American version of the software. Software for other countries and regions may vary slightly from the North American version.

TABLE OF CONTENTS

1 BEFORE INSTALLING THE SOFTWARE

CD-ROMS AND SOFTWARE 2
- SOFTWARE CD-ROM 2
- OTHER CD-ROMS 4

VERIFYING SYSTEM REQUIREMENTS 5
- SYSTEM REQUIREMENTS 5
- SOFTWARE REQUIREMENTS 6

CONNECTING THE MACHINE 7
- CONNECTING TO A NETWORK 7
- CONNECTING THE MACHINE WITH A USB CABLE (Windows) 7

2 SETUP IN A WINDOWS ENVIRONMENT

OPENING THE SOFTWARE SELECTION SCREEN (FOR ALL SOFTWARE) 8

INSTALLING THE PRINTER DRIVER / PC-FAX DRIVER 9
- WHEN THE MACHINE IS CONNECTED TO A NETWORK 9
- WHEN THE MACHINE WILL BE CONNECTED WITH A USB CABLE 19
- USING THE MACHINE AS A SHARED PRINTER 23
- CONFIGURING THE PRINTER DRIVER FOR THE OPTIONS INSTALLED ON THE MACHINE 24

INSTALLING THE PRINTER STATUS MONITOR . . 27

INSTALLING THE SCANNER DRIVER 28

INSTALLING THE PS DISPLAY FONTS 30

CHANGING THE PORT 31

3 SETUP IN A MACINTOSH ENVIRONMENT

MAC OS X 34

4 TROUBLESHOOTING

WHEN INSTALLATION WAS NOT SUCCESSFUL . . 38

REMOVING THE SOFTWARE 41

1 BEFORE INSTALLING THE SOFTWARE

This chapter describes the software programs that allow you to use the printer and scanner functions of the machine, the CD-ROMs that contain the software, and the pages where the installation procedures can be found.

CD-ROMS AND SOFTWARE

The software that can be used with the machine is on the CD-ROMs that accompany the machine and the expansion kits. Before installing the software, make sure that your computer and the machine meet the system requirements described in "VERIFYING SYSTEM REQUIREMENTS" (page 5).

SOFTWARE CD-ROM

▶ "Software CD-ROM" that accompanies the machine (for Windows)

The "Software CD-ROM" that accompanies the machine is not used when the printer expansion kit is installed on the machine. Please use the "Software CD-ROM" that accompanies the printer expansion kit.
The "Software CD-ROM" that accompanies the machine contains the printer driver and other software.
Depending on the models, the printer expansion kit is installed as standard. In this case, the contents of the "Software CD-ROM" that accompanies the printer expansion kit are also included to the "Software CD-ROM" that accompanies the machine. Please use the "Software CD-ROM" that accompanies the machine.

- **Sharp Advanced Printing Language-c printer driver**
  This is a SHARP proprietary printer driver.
  ☞ WHEN THE MACHINE IS CONNECTED TO A NETWORK (page 9)
  ☞ WHEN THE MACHINE WILL BE CONNECTED WITH A USB CABLE (page 19)

- **Printer Status Monitor (can only be used when the machine is connected to a network)**
  This allows you to monitor the status of the machine on your computer screen.
  ☞ INSTALLING THE PRINTER STATUS MONITOR (page 27)

- **PC-Fax driver**
  This enables you to send a file from your computer as a fax using the same procedure as when printing the file. (When the fax option is installed.)
  Even if the fax function is not installed, the PC-Fax driver can be updated using the CD-ROM in the Internet fax expansion kit to enable you to send a file from your computer as an Internet fax in the same way as you print a file.
  ☞ INSTALLING THE PRINTER DRIVER / PC-FAX DRIVER (page 9)

- **Scanner driver (TWAIN driver)**
  (can only be used when the machine is connected to a network)
  This allows you to use the scanner function of the machine from a TWAIN-compliant software application.
  ☞ INSTALLING THE SCANNER DRIVER (page 28)

▶ "Software CD-ROM" that accompanies the printer expansion kit (for Windows/Macintosh)

Software for Windows

- **Printer driver**

  These allow the machine to be used as a printer.

  - **PCL6 printer driver**
    The machine supports the Hewlett-Packard PCL6 printer control languages.
  - **PS printer driver**
    The PS printer driver supports the PostScript 3 page description language developed by Adobe Systems Incorporated.
  - **PPD driver**
    The PPD driver enables the machine to use the standard Windows PS printer driver.

  ☞ WHEN THE MACHINE IS CONNECTED TO A NETWORK (page 9)
  ☞ WHEN THE MACHINE WILL BE CONNECTED WITH A USB CABLE (page 19)

- **Printer Status Monitor (can only be used when the machine is connected to a network)**

  This allows you to monitor the status of the machine on your computer screen.

  ☞ INSTALLING THE PRINTER STATUS MONITOR (page 27)

- **PC-Fax driver**

  This enables you to send a file from your computer as a fax using the same procedure as when printing the file. (When the fax option is installed.)
  Even if the fax function is not installed, the PC-Fax driver can be updated using the CD-ROM in the Internet fax expansion kit to enable you to send a file from your computer as an Internet fax in the same way as you print a file.

  ☞ INSTALLING THE PRINTER DRIVER / PC-FAX DRIVER (page 9)

- **Scanner driver (TWAIN driver)**
  (can only be used when the machine is connected to a network)

  This allows you to use the scanner function of the machine from a TWAIN-compliant software application.

  ☞ INSTALLING THE SCANNER DRIVER (page 28)

Software for Macintosh

- **PPD file**

  The printer description file supports the PostScript 3 page description language developed by Adobe Systems Incorporated.

  ☞ MAC OS X (page 34)

- The PS3 expansion kit is required to use the machine as a printer in a Macintosh environment. In addition, the machine must be connected to a network. A USB connection cannot be used.
- Depending on the models, the PS3 expansion kit is installed as standard.
- The scanner driver and PC-Fax driver are not available with the printer models.
- The scanner driver and PC-Fax driver cannot be used in a Macintosh environment.

OTHER CD-ROMS

▶ "PRINTER UTILITIES" CD-ROM that accompanies the PS3 expansion kit* (for Windows/Macintosh)

This contains the display fonts that are used with the PS printer driver.
(Install the PS printer driver and Macintosh PPD file from the "Software CD-ROM" that accompanies the printer expansion kit*.)
* Depending on the models, the PS3 expansion kit is installed as standard.
☞ INSTALLING THE PS DISPLAY FONTS (page 30)

▶ "PRINTER UTILITIES" CD-ROM that accompanies the Internet fax expansion kit*1 (for Windows)

This CD-ROM is used to update the PC-Fax driver on the "Software CD-ROM" that accompanies the machine or printer expansion kit*2 so that it can be used to send Internet faxes (PC-Fax function).
If you wish to use the PC-Fax function, first install the PC-Fax driver from the "Software CD-ROM" that accompanies the machine or printer expansion kit*2 and then run the installer on this CD-ROM. If the PC-Fax driver is already installed, run only the installer. (There is no need to reinstall the PC-Fax driver.)
*1 Depending on the models, the Internet fax expansion kit may not be available.
*2 Depending on the models, the printer expansion kit is installed as standard.
☞ INSTALLING THE PRINTER DRIVER / PC-FAX DRIVER (page 9)

▶ "Sharpdesk/Network Scanner Utilities" CD-ROM* (for Windows)

This contains software that helps you get the most out of the images that you scan on the machine. The software includes "Sharpdesk", a desktop document management application that enables integrated management of scanned images and files created using a variety of applications. To use the "Scan to Desktop" scanner function, the "Network Scanner Tool" must be installed from the CD-ROM.
For the system requirements of the software, see the manual (PDF format) in the "Manual" folder or the Readme file on the CD-ROM. For the procedures for installing the software, see the "Information Guide".
* Depending on the models, this CD-ROM does not accompany the machine.

VERIFYING SYSTEM REQUIREMENTS

SYSTEM REQUIREMENTS

Before installing the software described in this manual, make sure that your computer satisfies the following requirements.

	Windows	Macintosh*6
Operating system*1	Windows XP*3, Windows Server 2003*3, Windows Vista*3, Windows Server 2008*3, Windows 7*3, Windows 8*3, Windows 8.1*3, Windows Server 2012*3	Mac OS X v10.4, Mac OS X v10.5, Mac OS X v10.6, Mac OS X v10.7, Mac OS X v10.8
Computer type*2	IBM PC/AT compatible computer Equipped LAN board or equipped standard with a USB 2.0*4/1.1*5 port.	An environment in which any of the operating systems listed above can fully operate (including Macintosh computers with an Intel processor).
Display	1024 x 768 dots resolution and 16-bit color or higher is recommended.	
Other hardware requirements	An environment that allows any of the above operating systems to fully operate.	

*1 The Windows OS Starter Edition and Embedded Edition are not supported.
Other editions and service packs are supported, however, it is recommended that service packs be updated to the newest available version.

*2 In addition to the models described on the right, some models equipped with the wireless LAN function are also supported.

*3 Including the 64-bit edition OS.

*4 The machine's USB 2.0 port will transfer data at the speed specified by the USB2.0 (Hi-Speed) standard only if the Microsoft USB 2.0 driver is preinstalled in the computer, or if the USB 2.0 driver for Windows that Microsoft provides through "Windows Update" is installed.
Depending on the models, the software may not be available for Windows 2000.

*5 Compatible with models preinstalled with Windows XP, Windows Server 2003, Windows Vista, Windows Server 2008, Windows 7, Windows 8, Windows 8.1, or Windows Server 2012, and which are equipped standard with a USB interface.

*6 Cannot be used when the machine is connected with a USB cable. The PC-Fax driver and scanner driver cannot be used.

For users of Windows
To perform the procedures described in this manual such as installing the software and configuring settings after installation, administrator authority is required.

SOFTWARE REQUIREMENTS

The following requirements must be met to use the software described in this manual. For the types of computers and operating systems that can run the software, see "SYSTEM REQUIREMENTS" (page 5).

Operating system environment	Software	Type of connection
Windows	Sharp Advanced Printing Language-c printer driver*1	Network/ USB
	PCL6 printer driver*2	
	PS printer driver*2, PPD driver*2	
	PC-Fax driver*3, *4	
	Scanner driver*4	Network only*5 (cannot be used with a USB connection)
	Printer Status Monitor	
Macintosh	Macintosh PPD file*2	

*1 Depending on the models, this function may not be available.
*2 Depending on the models, the printer expansion kit or the PS3 expansion kit is installed as standard.
*3 Depending on the models, the facsimile expansion kit is installed as standard. When the Internet fax expansion kit is installed, the PC-Fax driver can be updated using the "PRINTER UTILITIES" CD-ROM to enable the driver to be used as a PC-Fax driver. In this case, the driver can be used without the facsimile expansion kit.
*4 The scanner driver and PC-Fax driver are not available with the printer models.
*5 The scanner driver and Printer Status Monitor cannot be used when the network is only IPv6.

CONNECTING THE MACHINE

CONNECTING TO A NETWORK

To connect the machine to a network, connect the LAN cable to the machine's network connector. Use a shielded LAN cable.
After connecting the machine to a network, be sure to configure the IP address and other network settings before installing the software. (The factory default setting for the IP address is to receive the IP address automatically when the machine is used in a DHCP environment.)
Network settings can be configured using "Network Settings" in the system settings (administrator) on the machine.

- If the machine is used in a DHCP environment, the IP address of the machine may change. If this happens, printing will not be possible. This problem can be avoided by assigning a permanent IP address to the machine.
- This manual explains how to set up the software in a Windows network environment and in a Macintosh network environment.
- When using this machine on an IPv6 network, enable IPv6 setting in the "Network Settings" in the system settings (administrator).

▶ Checking the IP address of the machine

You can check the IP address of the machine by printing out the "All Custom Setting List" in the system settings.
To print out the "All Custom Setting List", see the Operation Guide.

CONNECTING THE MACHINE WITH A USB CABLE (Windows)

The machine can be connected to a computer using a USB cable if the computer is a Windows computer. (The USB interface on the machine cannot be used in a Macintosh environment.)
The machine and computer should be connected while the printer driver is being installed. If a USB cable is connected before the printer driver is installed, the printer driver will not be installed correctly. For the procedure for connecting a USB cable, see "WHEN THE MACHINE WILL BE CONNECTED WITH A USB CABLE" (page 19).

2 SETUP IN A WINDOWS ENVIRONMENT

This section explains how to install the software and configure settings so that the printer and scanner function of the machine can be used with a Windows computer.

OPENING THE SOFTWARE SELECTION SCREEN (FOR ALL SOFTWARE)

1 Insert the "Software CD-ROM" into your computer's CD-ROM drive.

2 Click the [Start] button ( ), click [Computer], and then double-click the [CD-ROM] icon ( ).

- In Windows XP/Server 2003, click the [start] button, click [My Computer], and then double-click the [CD-ROM] icon.
- In Windows 8/Server 2012, right-click in the startup window (or swipe upward from the bottom edge), then select [Taskbar] → [All Applications] → [Computer] and then double-click [CD-ROM].
- In Windows 8.1, right-click the [Start] button on the desktop, click [File Explorer] and then double-click the [CD-ROM] icon.

3 Double-click the [Setup] icon ( ).

- In Windows 7/8/8.1/Server 2012, if a message screen appears asking you for confirmation, click [Yes].
- In Windows Vista/Server 2008, if a message screen appears asking you for confirmation, click [Allow].

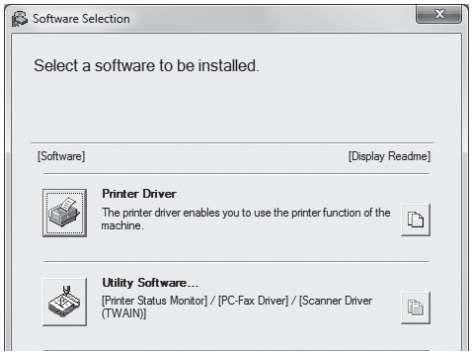
4 The "SOFTWARE LICENSE" window will appear. Make sure that you understand the contents of the license agreement and then click the [Yes] button.

You can show the "SOFTWARE LICENSE" in a different language by selecting the desired language from the language menu. To install the software in the selected language, continue the installation with that language selected.

5 Read the message in the "Welcome" window and then click the [Next] button.

6 The software selection screen appears.

Before installing the software, be sure to click the [Display Readme] button and view the detailed information on the software.


Software Selection
Select a software to be installed.
[Software]
[Display Readme]
Printer Driver
The printer driver enables you to use the printer function of the machine.
Utility Software...
[Printer Status Monitor] / [PC-Fax Driver] / [Scanner Driver (TWAIN)]

For the steps that follow, see the appropriate page below for the software that you are installing.

INSTALLING THE PRINTER DRIVER / PC-FAX DRIVER
- **WHEN THE MACHINE IS CONNECTED TO A NETWORK*1**
  - **Standard installation: page 10**
  - **Advanced installation: page 12**
  - **Installation by specifying the machine's address: page 14**
  - **Printing using the IPP function and the SSL function*2: page 17**
- **WHEN THE MACHINE WILL BE CONNECTED WITH A USB CABLE: page 19**
- **USING THE MACHINE AS A SHARED PRINTER: page 23**

INSTALLING THE PRINTER STATUS MONITOR: page 27
INSTALLING THE SCANNER DRIVER: page 28

*1 If the machine is being used on an IPv6 network, see "Installation by specifying the machine's address" (page 14).
*2 Depending on the models, this function may not be available.

The button and screen vary depending on the models. If you use the printer model, the [Printer Status Monitor] button is displayed instead of the [Utility software] button.

INSTALLING THE PRINTER DRIVER / PC-FAX DRIVER

To install the printer driver or the PC-Fax driver, follow the appropriate procedure in this section depending on whether the machine is connected to a network or connected by USB cable.

☞ WHEN THE MACHINE WILL BE CONNECTED WITH A USB CABLE (page 19)

WHEN THE MACHINE IS CONNECTED TO A NETWORK

This section explains how to install the printer driver and the PC-Fax driver when the machine is connected to a Windows network (TCP/IP network).

Administrator's rights are required to install the software.

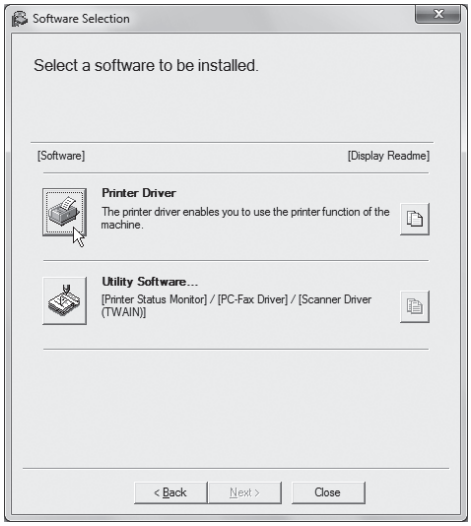
- The printer expansion kit and PS3 expansion kit are required to use the PS printer driver or the PPD driver.
- The printer expansion kit is required to use the PCL printer driver.
- Depending on the models, the printer expansion kit and the PS3 expansion kit are installed as standard.
- To print to the machine over the Internet using the IPP function when the machine is installed in a remote location, or to print using the SSL (encrypted communication) function, see "Printing using the IPP function and the SSL function" (page 17) and install the printer driver or the PC-Fax driver. (Depending on the models, this function may not be available.)
- **If the machine is connected to an IPv6-only network**
  The software cannot be installed by detecting the machine's address from the installer. After installing the software as explained in "Installation by specifying the machine's address" (page 14), change the port as explained in "Changing to a Standard TCP/IP Port" (page 32).
- The installation procedure in this section is for both the printer driver and the PC-Fax driver, although the explanations are centered on the printer driver.
- The PC-Fax driver is not available with the printer models.

▶ Standard installation

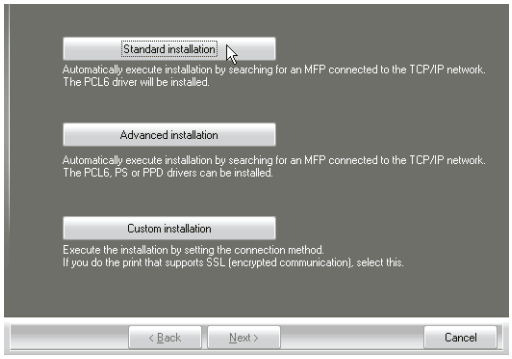
When the software selection screen appears in step 6 of "OPENING THE SOFTWARE SELECTION SCREEN (FOR ALL SOFTWARE)" (page 8), perform the steps below.

1 Click the [Printer Driver] button.

To install the PC-Fax driver, click the [Utility Software] button and then click the [PC-Fax Driver] button.


Software Selection
Select a software to be installed.
[Software]
[Display Readme]
Printer Driver
The printer driver enables you to use the printer function of the machine.
Utility Software...
[Printer Status Monitor] / [PC-Fax Driver] / [Scanner Driver (TWAIN)]
< Back
Next >
Close

2 Click the [Standard installation] button.


Standard installation
Automatically execute installation by searching for an MFP connected to the TCP/IP network. The PCL6 driver will be installed.
Advanced installation
Automatically execute installation by searching for an MFP connected to the TCP/IP network. The PCL6, PS or PPD drivers can be installed.
Custom installation
Execute the installation by setting the connection method. If you do the print that supports SSL (encrypted communication), select this.
< Back
Next >
Cancel

When [Custom installation] is selected, you can change any of the items below. When [Standard installation] is selected, the installation will take place as indicated below.

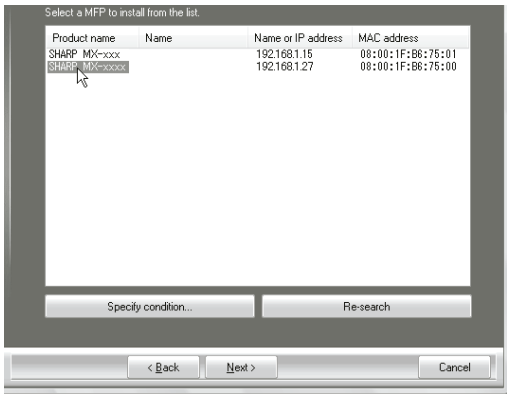
- Machine connection method: LPR Direct Print (Auto Search)
- Set as default printer: Yes (excluding the PC-Fax driver)
- Printer driver name: Cannot be changed
- PCL printer display fonts (Only at the time of PCL, PS printer driver or PPD driver installation): Installed

If you selected [Custom installation], select [LPR Direct Print (Auto Search)] and click the [Next] button. If you selected other than [LPR Direct Print (Auto Search)], see the following pages:

- LPR Direct Print (Specify Address): page 14
- IPP: page 17
- Shared printer: page 23
- Connected to this computer: page 19

When Sharp Advanced Printing Language-c driver is installed, the [Advanced installation] button is not displayed.

3 Printers connected to the network are detected. Select the machine and click the [Next] button.



- This screen is not displayed when only 1 device is found in the search results.
- If the machine is not found, make sure that the machine is powered on and that the machine is connected to the network, and then click the [Re-search] button.
- You can also click the [Specify condition] button and search for the machine by entering the machine's name (host name) or IP address.
  ☞ Checking the IP address of the machine (page 7)

4 A confirmation window appears. Check the contents and then click the [Next] button.

5 Follow the on-screen instructions.

Read the message in the window that appears and click the [Next] button.
Installation begins.

- **If you are using Windows Vista/Server 2008/7/8/8.1/Server 2012**
  If a security warning window appears, be sure to click [Install this driver software anyway].
- **If you are using Windows XP/Server 2003**
  If a warning message regarding the Windows logo test or digital signature appears, be sure to click the [Continue Anyway] or [Yes] button.

6 When the installation completed screen appears, click the [OK] button.

7 Click the [Close] button in the window of step 1.

After the installation, a message prompting you to restart your computer may appear. If this message appears, click the [Yes] button to restart your computer.

This completes the installation.

- After installation, see "CONFIGURING THE PRINTER DRIVER FOR THE OPTIONS INSTALLED ON THE MACHINE" (page 24) to configure the printer driver settings.
- If you installed the PS printer driver or the PPD driver, the PS display fonts can be installed from the "PRINTER UTILITIES" CD-ROM that accompanies the PS3 expansion kit*. See "INSTALLING THE PS DISPLAY FONTS" (page 30).
  * Depending on the models, the PS3 expansion kit is installed as standard.
- If you are using the machine as a shared printer, see "USING THE MACHINE AS A SHARED PRINTER" (page 23) to install the printer driver on each of the client computers.

▶ Advanced installation

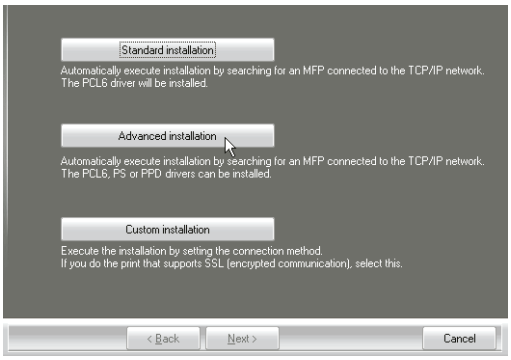
With the advanced installation, you can select the printer driver to be installed.
When the software selection screen appears in step 6 of "OPENING THE SOFTWARE SELECTION SCREEN (FOR ALL SOFTWARE)" (page 8), perform the steps below.
When Sharp Advanced Printing Language-c driver is installed, this installation is not performed.

1 Click the [Printer Driver] button.

To install the PC-Fax driver, click the [Utility Software] button and then click the [PC-Fax Driver] button.

[Software]
[Display Readme]
Printer Driver
The printer driver enables you to use the printer function of the machine.
Utility Software...
[Printer Status Monitor] / [PC-Fax Driver] / [Scanner Driver (TWAIN)]
< Back
Next >
Close

2 Click the [Advanced installation] button.


Standard installation
Automatically execute installation by searching for an MFP connected to the TCP/IP network. The PCL6 driver will be installed.
Advanced installation
Automatically execute installation by searching for an MFP connected to the TCP/IP network. The PCL6, PS or PPD drivers can be installed.
Custom installation
Execute the installation by setting the connection method. If you do the print that supports SSL (encrypted communication), select this.
< Back
Next >
Cancel

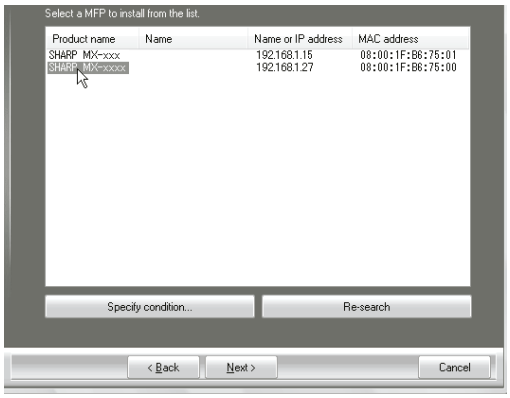
When [Custom installation] is selected, you can change any of the items below. When [Standard installation] is selected, the installation will take place as indicated below.

- Machine connection method: LPR Direct Print (Auto Search)
- Set as default printer: Yes (excluding the PC-Fax driver)
- Printer driver name: Cannot be changed
- PCL printer display fonts: Installed

If you selected [Custom installation], select [LPR Direct Print (Auto Search)] and click the [Next] button. If you selected other than [LPR Direct Print (Auto Search)], see the following pages:

- LPR Direct Print (Specify Address): page 14
- IPP: page 17
- Shared printer: page 23
- Connected to this computer: page 19

3 Printers connected to the network are detected. Select the machine and click the [Next] button.

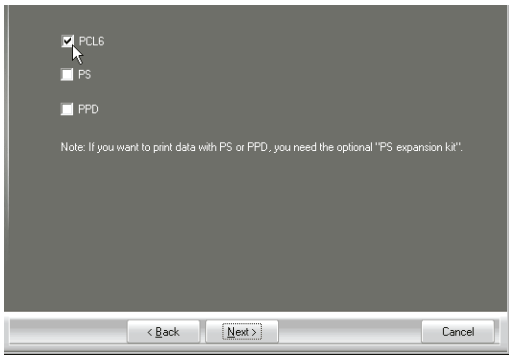


- If the machine is not found, make sure that the machine is powered on and that the machine is connected to the network, and then click the [Re-search] button.
- You can also click the [Specify condition] button and search for the machine by entering the machine's name (host name) or IP address.
  ☞ Checking the IP address of the machine (page 7)

4 A confirmation window appears. Check the contents and then click the [Next] button.

5 When the printer driver selection window appears, select the printer driver to be installed and click the [Next] button.

Click the checkbox of the printer driver to be installed so that a checkmark (☑) appears.



- When the PC-Fax driver is being installed, this screen does not appear. Go to the next step.
- The PS3 expansion kit* is required to use the PS printer driver or the PPD driver.
  * Depending on the models, the PS3 expansion kit is installed as standard.

6 When you are asked whether or not you want the printer to be your default printer, make a selection and click the [Next] button.

If you are installing multiple drivers, select the printer driver to be used as the default printer.
If you do not wish to set one of the printer drivers as the default printer, select [No].

If you clicked the [Custom installation] button in step 2, the following windows will appear.

- **Printer name window**
  If you wish to change the printer name, enter the desired name and click the [Next] button.
- **Window confirming installation of the display fonts**
  To install the display fonts for the PCL printer driver, select [Yes] and click the [Next] button.
  - When the PC-Fax driver is being installed, this screen does not appear. Go to the next step.
  - If you are not installing the PCL printer driver (you are installing the PS printer driver or the PPD driver), select [No] and click the [Next] button.

7 Proceed with the installation by following instructions from step 5 of "Standard installation" (page 11).

▶ Installation by specifying the machine's address

When the machine cannot be found because it is not powered on or otherwise, installation is possible by entering the name (host name) or IP address of the machine.
If the machine is being used on an IPv6 network, after you have installed the software as explained below, change the port as explained in "Changing to a Standard TCP/IP Port" (page 32).

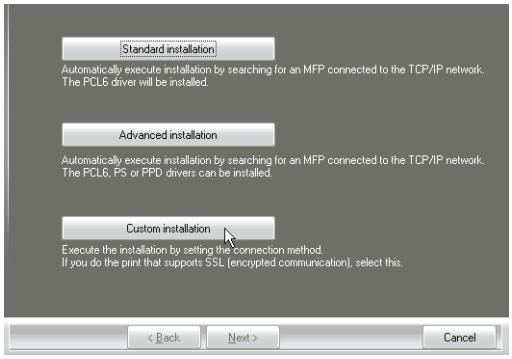
When the software selection screen appears in step 6 of "OPENING THE SOFTWARE SELECTION SCREEN (FOR ALL SOFTWARE)" (page 8), perform the steps below.

1 Click the [Printer Driver] button.

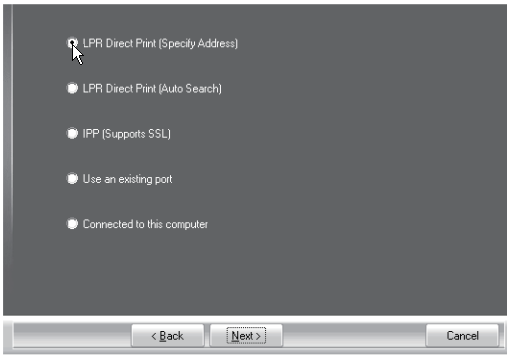
To install the PC-Fax driver, click the [Utility Software] button and then click the [PC-Fax Driver] button.

Software Selection
Select a software to be installed.
[Software]
[Display Readme]
Printer Driver
The printer driver enables you to use the printer function of the machine.
Utility Software...
[Printer Status Monitor] / [PC-Fax Driver] / [Scanner Driver (TWAIN)]
< Back
Next >
Close

2 Click the [Custom installation] button.

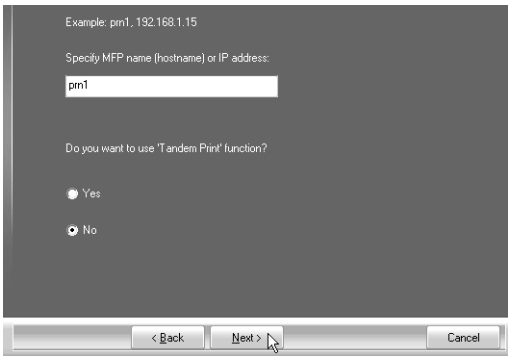

Standard installation
Automatically execute installation by searching for an MFP connected to the TCP/IP network. The PCL6 driver will be installed.
Advanced installation
Automatically execute installation by searching for an MFP connected to the TCP/IP network. The PCL6, PS or PPD drivers can be installed.
Custom installation
Execute the installation by setting the connection method. If you do the print that supports SSL (encrypted communication), select this.
< Back
Next >
Cancel

3 When you are asked how the printer is connected, select [LPR Direct Print (Specify Address)] and click the [Next] button.



4 Enter the name (host name) or IP address of the machine and click the [Next] button.

☞ Checking the IP address of the machine (page 7)



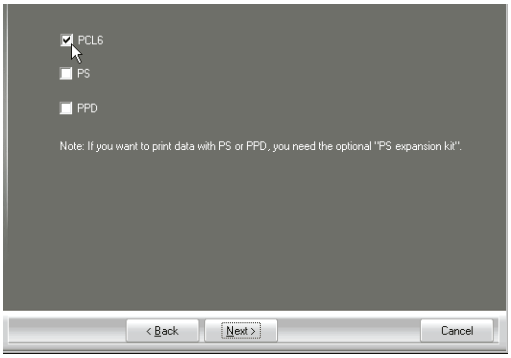
* The screen is that of PCL6 printer driver. The message "Do you want to use 'Tandem Print' function?" is not displayed in case of Sharp Advanced Printing Language-c printer driver.

If the machine is being used on an IPv6 network, enter any numbers or characters.

5 When the model selection window appears, select the model name of your machine and click the [Next] button.

6 When the printer driver selection window appears, select the printer driver to be installed and click the [Next] button.

Click the checkbox of the printer driver to be installed so that a checkmark (☑) appears.



- When the Sharp Advanced Printing Language-c printer driver or the PC-Fax driver is being installed, this screen does not appear. Go to the next step.
- The PS3 expansion kit* is required to use the PS printer driver or the PPD driver.
  * Depending on the models, the PS3 expansion kit is installed as standard.

7 Select whether or not you wish the printer to be your default printer and click the [Next] button.

If you are installing multiple drivers, select the printer driver to be used as the default printer.
If you do not wish to set one of the printer drivers as the default printer, select [No].

8 When the printer name window appears, click the [Next] button.

If you wish to change the printer name, enter the desired name.

9 When you are asked if you wish to install the display fonts, select an answer and click the [Next] button.

- When the Sharp Advanced Printing Language-c printer driver or the PC-Fax driver is being installed, this screen does not appear. Go to the next step.
- If you are not installing the PCL printer driver (you are installing the PS printer driver or the PPD driver), select [No] and click the [Next] button.

10 Follow the on-screen instructions.

Read the message in the window that appears and click the [Next] button.
Installation begins.

- **If you are using Windows Vista/Server 2008/7/8/8.1/Server 2012**
  If a security warning window appears, be sure to click [Install this driver software anyway].
- **If you are using Windows XP/Server 2003**
  If a warning message regarding the Windows logo test or digital signature appears, be sure to click the [Continue Anyway] or [Yes] button.

11 When the installation completed screen appears, click the [OK] button.

12 Click the [Close] button in the window of step 1.

After the installation, a message prompting you to restart your computer may appear. If this message appears, click the [Yes] button to restart your computer.

This completes the installation.

- After installation, see "CONFIGURING THE PRINTER DRIVER FOR THE OPTIONS INSTALLED ON THE MACHINE" (page 24) to configure the printer driver settings.
- If you installed the PS printer driver or the PPD driver, the PS display fonts can be installed from the "PRINTER UTILITIES" CD-ROM that accompanies the PS3 expansion kit*. See "INSTALLING THE PS DISPLAY FONTS" (page 30).
  * Depending on the models, the PS3 expansion kit is installed as standard.
- When using this machine on an IPv6 network, refer to "Changing to a Standard TCP/IP Port" (page 32) and change the port.

▶ Printing using the IPP function and the SSL function

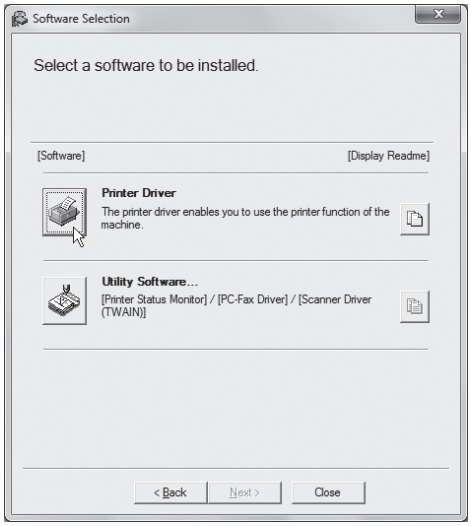
The IPP function can be used to print to the machine over a network using HTTP protocol.
When the machine is in a remote location, this function can be used in place of the fax function to print a higher quality image than a fax. The IPP function can also be used in combination with the SSL (encrypted communication) function to encrypt the print data. This enables secure printing with no concern that the data will be leaked to others.

- To use the SSL function, configure the "SSL Settings". To configure these settings, see the Operation Guide.
- Depending on the models, this function may not be available.

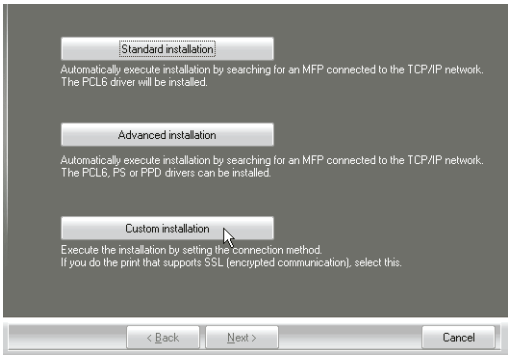
When the software selection screen appears in step 6 of "OPENING THE SOFTWARE SELECTION SCREEN (FOR ALL SOFTWARE)" (page 8), perform the steps below.

1 Click the [Printer Driver] button.

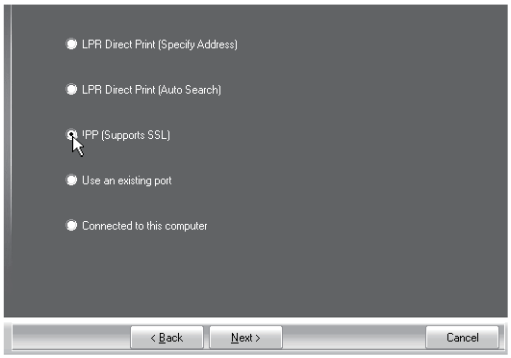
To install the PC-Fax driver, click the [Utility Software] button and then click the [PC-Fax Driver] button.


Software Selection
Select a software to be installed.
[Software]
[Display Readme]
Printer Driver
The printer driver enables you to use the printer function of the machine.
Utility Software...
[Printer Status Monitor] / [PC-Fax Driver] / [Scanner Driver (TWAIN)]
< Back
Next >
Close

2 Click the [Custom installation] button.

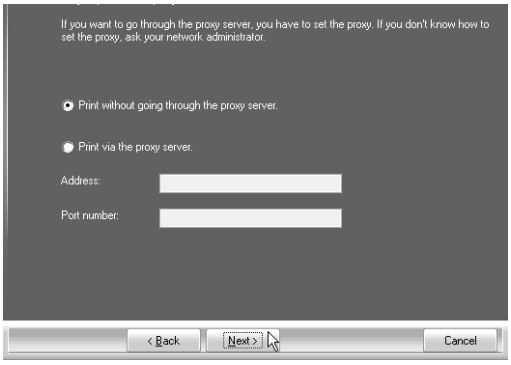

Standard installation
Automatically execute installation by searching for an MFP connected to the TCP/IP network. The PCL6 driver will be installed.
Advanced installation
Automatically execute installation by searching for an MFP connected to the TCP/IP network. The PCL6, PS or PPD drivers can be installed.
Custom installation
Execute the installation by setting the connection method. If you do the print that supports SSL (encrypted communication), select this.
< Back
Next >
Cancel

3 When you are asked how the printer is connected, select [IPP] and click the [Next] button.



4 If a proxy server is used, specify the proxy server and click the [Next] button.

To specify a proxy server, select [Print via the proxy server] and then enter the [Address] and [Port number].


If you want to go through the proxy server, you have to set the proxy. If you don't know how to set the proxy, ask your network administrator.
Print without going through the proxy server.
Print via the proxy server.
Address:
Port number:
< Back
Next >
Cancel

5 Enter the machine's URL and click the [Next] button.

Enter the URL in the following format:

Normal format:

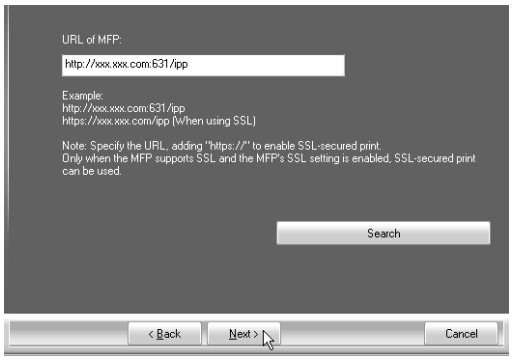
http://<the machine's domain name or IP address>:631*1/ipp

*1 Normally "631" should be entered for the port number. If the IPP port number has been changed on the machine, enter the new port number.

When SSL is used:

https://< the machine's domain name or IP address>:<port number*2>/ipp

*2 Normally the port number and the colon ":" immediately preceding the port number can be omitted. If the IPP port number for SSL has been changed on the machine, enter the new port number.


URL of MFP:
http://xxx.xxx.com:631/ipp
Example:
http://xxx.xxx.com:631/ipp
https://xxx.xxx.com/ipp (When using SSL)
Note: Specify the URL, adding "https://" to enable SSL-secured print.
Only when the MFP supports SSL and the MFP's SSL setting is enabled, SSL-secured print can be used.
Search
< Back
Next >
Cancel

If your computer and the machine are connected to the same local area network, you can click the [Search] button to search for the machine. The machine's URL will appear. Select the URL and click the [OK] button. You will return to the above screen and the machine's URL will be automatically entered.

6 Perform steps 5 through 12 on page 15 to continue the installation.

This completes the installation.

- After installation, see "CONFIGURING THE PRINTER DRIVER FOR THE OPTIONS INSTALLED ON THE MACHINE" (page 24) to configure the printer driver settings.
- If you installed the PS printer driver or the PPD driver, the PS display fonts can be installed from the "PRINTER UTILITIES" CD-ROM that accompanies the PS3 expansion kit*. See "INSTALLING THE PS DISPLAY FONTS" (page 30).

* Depending on the models, the PS3 expansion kit is installed as standard.

WHEN THE MACHINE WILL BE CONNECTED WITH A USB CABLE

Administrator's rights are required to install the software.

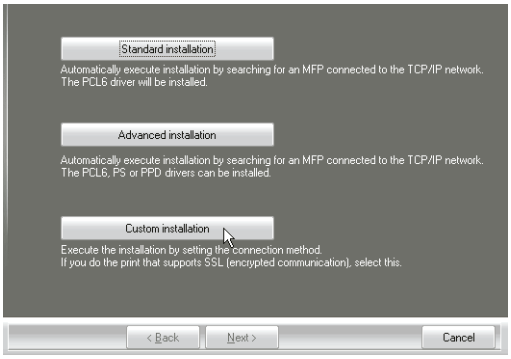
- **Make sure that a USB cable is not connected to your computer and the machine.**
  If a cable is connected, a Plug and Play window will appear. If this happens, click the [Cancel] button to close the window and disconnect the cable.
- The printer expansion kit and PS3 expansion kit are required to use the PS printer driver or the PPD driver.
- The printer expansion kit is required to use the PCL printer driver.
- Depending on the models, the printer expansion kit and the PS3 expansion kit are installed as standard.
- Depending on the models, Sharp Advanced Printing Language-c printer driver may not be available.
- To use the port created when the printer driver is installed for fax data transfer, install the printer driver first and then install the PC-Fax driver.

When the software selection screen appears in step 6 of "OPENING THE SOFTWARE SELECTION SCREEN (FOR ALL SOFTWARE)" (page 8), perform the steps below.

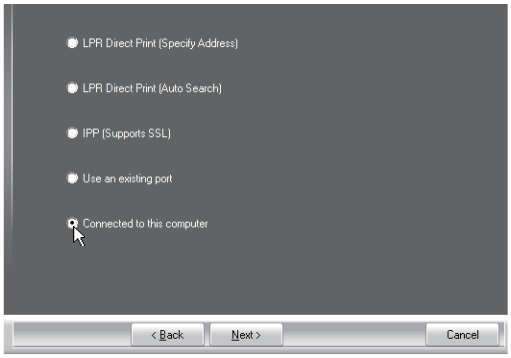
1 Click the [Printer Driver] button.

Software Selection
Select a software to be installed.
[Software]
[Display Readme]
Printer Driver
The printer driver enables you to use the printer function of the machine.
Utility Software...
[Printer Status Monitor] / [PC-Fax Driver] / [Scanner Driver (TWAIN)]
< Back
Next >
Close

2 Click the [Custom installation] button.


Standard installation
Automatically execute installation by searching for an MFP connected to the TCP/IP network. The PCL6 driver will be installed.
Advanced installation
Automatically execute installation by searching for an MFP connected to the TCP/IP network. The PCL6, PS or PPD drivers can be installed.
Custom installation
Execute the installation by setting the connection method. If you do the print that supports SSL (encrypted communication), select this.
< Back
Next >
Cancel

3 When you are asked how the printer is connected, select [Connected to this computer] and click the [Next] button.



4 When you are asked if you wish to install the display fonts, select an answer and click the [Next] button.

When the Sharp Advanced Printing Language-c printer driver is being installed, this screen does not appear. Go to the next step.

5 Follow the on-screen instructions.

Read the message in the window that appears and click the [Next] button.
When the installation completed screen appears, click the [OK] button.

- **If you are using Windows Vista/Server 2008/7/8/8.1/Server 2012**
  If a security warning window appears, be sure to click [Install this driver software anyway].
- **If you are using Windows XP/Server 2003**
  If a warning message regarding the Windows logo test or digital signature appears, be sure to click the [Continue Anyway] or [Yes] button.

6 Click the [Close] button in the window of step 1.

When a message appears prompting you to connect the machine to your computer, click the [OK] button.

After the installation, a message prompting you to restart your computer may appear. If this message appears, click the [Yes] button to restart your computer.

7 Connect the machine to your computer with a USB cable.

(1) Make sure that the machine is powered on.

(2) Connect the cable to the USB connector (B type) on the machine.

The USB interface on the machine complies with the USB 2.0 (Hi-Speed) standard. Please purchase a shielded USB cable.

(3) Connect the other end of the cable to the USB connector (A type) on your computer.

8 Installation of the PCL6 or Sharp Advanced Printing Language-c* printer driver begins.

When the "Found New Hardware Wizard" appears, select [Install the software automatically (Recommended)], click the [Next] button, and follow the on-screen instructions.

* Depending on the models, Sharp Advanced Printing Language-c printer driver may not be available.

- **If you are using Windows Vista/Server 2008/7/8/8.1/Server 2012**
  If a security warning window appears, be sure to click [Install this driver software anyway].
- **If you are using Windows XP/Server 2003**
  If a warning message regarding the Windows logo test or digital signature appears, be sure to click the [Continue Anyway] or [Yes] button.

This completes the installation.

- After installing the printer driver, see "CONFIGURING THE PRINTER DRIVER FOR THE OPTIONS INSTALLED ON THE MACHINE" (page 24) to configure the printer driver settings.
- If you are using the machine as a shared printer, see "USING THE MACHINE AS A SHARED PRINTER" (page 23) to install the printer driver on each of the client computers.

When installing the PS printer driver, PPD driver, or PC-Fax driver

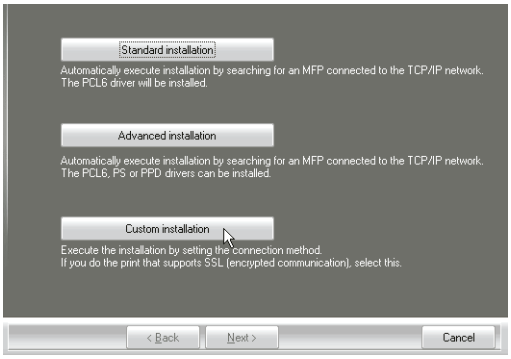
Installation is possible even after the USB cable has been connected. When the software selection screen appears in step 6 of "OPENING THE SOFTWARE SELECTION SCREEN (FOR ALL SOFTWARE)" (page 8), perform the steps below.

1 Click the [Printer Driver] button.

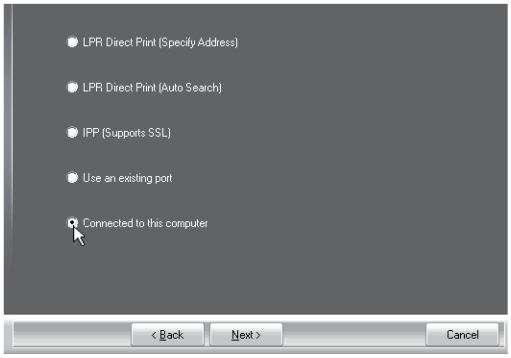
To install the PC-Fax driver, click the [Utility Software] button and then click the [PC-Fax Driver] button.

Software Selection
Select a software to be installed.
[Software]
[Display Readme]
Printer Driver
The printer driver enables you to use the printer function of the machine.
Utility Software...
[Printer Status Monitor] / [PC-Fax Driver] / [Scanner Driver (TWAIN)]
< Back
Next >
Close

2 Click the [Custom installation] button.


Standard installation
Automatically execute installation by searching for an MFP connected to the TCP/IP network. The PCL6 driver will be installed.
Advanced installation
Automatically execute installation by searching for an MFP connected to the TCP/IP network. The PCL6, PS or PPD drivers can be installed.
Custom installation
Execute the installation by setting the connection method. If you do the print that supports SSL (encrypted communication), select this.
< Back
Next >
Cancel

3 When you are asked how the printer is connected, select [Connected to this computer] and click the [Next] button.

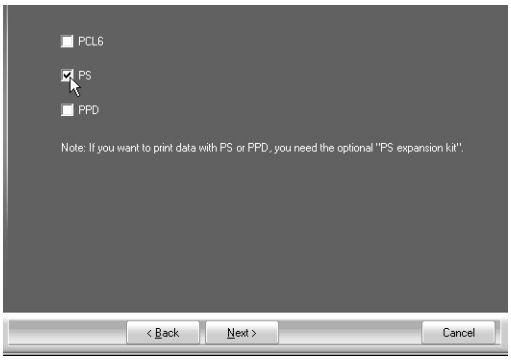


4 When the port selection window appears, select the port that the PCL6 or Sharp Advanced Printing Language-c* printer driver is using (USB001, etc.) and click the [Next] button.

* Depending on the models, Sharp Advanced Printing Language-c printer driver may not be available.

5 When the printer driver selection window appears, remove the [PCL6] checkmark and select the printer driver to be installed, and then click the [Next] button.

Click the checkbox of the printer driver to be installed so that a checkmark (☑) appears.



- When the PC-Fax driver is being installed, this screen does not appear. Go to the next step.
- The PS3 expansion kit* is required to use the PS printer driver or the PPD driver.
  * Depending on the models, the PS3 expansion kit is installed as standard.

6 Select whether or not you wish the printer to be your default printer and click the [Next] button.

If you are installing multiple drivers, select the printer driver to be used as the default printer.
If you do not wish to set one of the printer drivers as the default printer, select [No].

7 When the printer name window appears, click the [Next] button.

If you wish to change the printer name, enter the desired name and click the [Next] button.

8 When you are asked if you wish to install the display fonts, select [No] and click the [Next] button.

When the PC-Fax driver is being installed, this screen does not appear. Go to the next step.

9 Follow the on-screen instructions.

Read the message in the window that appears and click the [Next] button.
Installation begins.

- **If you are using Windows Vista/Server 2008/7/8/8.1/Server 2012**
  If a security warning window appears, be sure to click [Install this driver software anyway].
- **If you are using Windows XP/Server 2003**
  If a warning message regarding the Windows logo test or digital signature appears, be sure to click the [Continue Anyway] or [Yes] button.

10 When the installation completed screen appears, click the [OK] button.

11 Click the [Close] button in the window of step 1.

After the installation, a message prompting you to restart your computer may appear. If this message appears, click the [Yes] button to restart your computer.

This completes the installation.

- After installation, see "CONFIGURING THE PRINTER DRIVER FOR THE OPTIONS INSTALLED ON THE MACHINE" (page 24) to configure the printer driver settings.
- Make sure that the port of the installed driver is the same as the port used by the PCL6 or Sharp Advanced Printing Language-c* printer driver.
  The port used by the printer driver of the machine is indicated by a checkmark on the [Ports] tab of the printer driver properties window.
  * Depending on the models, Sharp Advanced Printing Language-c printer driver may not be available.
  ☞ CHANGING THE PORT (page 31)
- If you installed the PS printer driver or the PPD driver, the PS display fonts can be installed from the "PRINTER UTILITIES" CD-ROM that accompanies the PS3 expansion kit*. See "INSTALLING THE PS DISPLAY FONTS" (page 30).
  * Depending on the models, the printer expansion kit and the PS3 expansion kit are installed as standard.

USING THE MACHINE AS A SHARED PRINTER

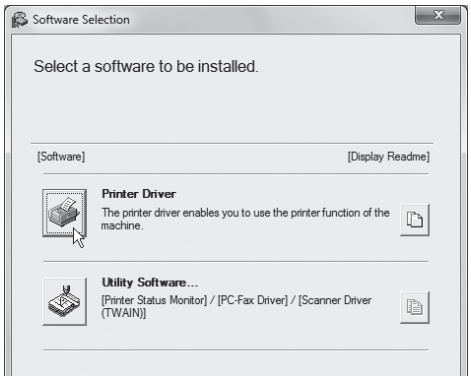
If you are going to use the machine as a shared printer on a Windows network with the printer driver or the PC-Fax driver installed on a print server, follow the steps below to install the printer driver or the PC-Fax driver on the client computers.

- Ask your network administrator for the server name and printer name of the machine on the network.
- For the procedure for configuring settings on the print server, see the operation manual or the Help file of the operating system. The "print server" explained here is a computer that is connected directly to the machine, and "clients" are other computers connected to the same network as the print server.
- Install the same printer driver on client computers as the printer driver that is installed on the print server.

When the software selection screen appears in step 6 of "OPENING THE SOFTWARE SELECTION SCREEN (FOR ALL SOFTWARE)" (page 8), perform the steps below.

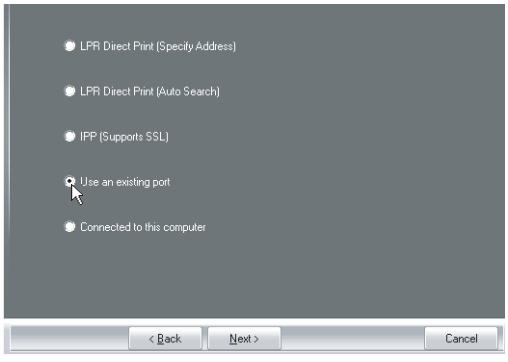
1 Click the [Printer Driver] button.

To install the PC-Fax driver, click the [Utility Software] button and then click the [PC-Fax Driver] button.

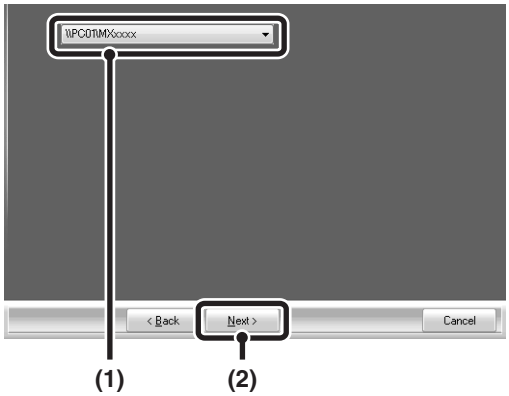

Software Selection
Select a software to be installed.
[Software]
[Display Readme]
Printer Driver
The printer driver enables you to use the printer function of the machine.
Utility Software...
[Printer Status Monitor] / [PC-Fax Driver] / [Scanner Driver (TWAIN)]

2 Click the [Custom installation] button.

3 Select [Use an existing port] and click the [Next] button.



4 Select the printer name (configured as a shared printer).



(1) Select the printer name (configured as a shared printer on a print server) from the list.
If you are using Windows XP/Server 2003, you can also click the [Add Network Port] button displayed below the list and select the printer to be shared by browsing the network in the window that appears.

(2) Click the [Next] button.

If the shared printer does not appear in the list, check the settings on the print server.

5 Perform steps 5 through 12 on page 15 to continue the installation.

In the printer driver selection screen, be sure to select the same type of printer driver as the printer driver installed on the print server.

This completes the installation.

If you installed the PS printer driver or the PPD driver, the PS display fonts can be installed from the "PRINTER UTILITIES" CD-ROM that accompanies the PS3 expansion kit*. See "INSTALLING THE PS DISPLAY FONTS" (page 30).

* Depending on the models, the PS3 expansion kit is installed as standard.

CONFIGURING THE PRINTER DRIVER FOR THE OPTIONS INSTALLED ON THE MACHINE

After installing the printer driver, you must configure the printer driver settings appropriately for the options that have been installed and the size and type of paper loaded in the machine. Follow the steps below to configure the printer driver.

- If the PPD driver is installed, see "When the PPD driver is installed" (page 26).
- Depending on the models, Sharp Advanced Printing Language-c printer driver may not be available.

▶ When the PCL printer driver, Sharp Advanced Printing Language-c printer driver or PS printer driver is installed

1 Click the [Start] button ( ), click [Control Panel], and then click [Devices and Printers] (or [View devices and printers]).

- In Windows XP/Server 2003, click the [start] button and then click [Printers and Faxes].
- In Windows 8/Server 2012, right-click in the startup window (or swipe upward from the bottom edge), then select [Taskbar] → [All Applications] → [Control Panel] → [Devices and Printers] → [Printers].
- In Windows 8.1, right-click the [Start] button on the desktop, click [Control Panel] and then click [Device and Printers].

If [Printers and Faxes] does not appear in the [start] menu in Windows XP, click the [start] button, click [Control Panel], click [Printers and Other Hardware], and then click [Printers and Faxes].

2 Open the printer properties window.

(1) Right-click the printer driver icon of the machine.

(2) Select [Printer properties].

In Windows XP, select [Properties].

3 Click the [Configuration] tab.

4 Click the [Auto Configuration] button.

The settings are automatically configured based on the detected machine status.

If the machine is being used on an IPv6 network, you must configure the options manually as explained in "If automatic configuration fails" (page 25).

5 Configure the image of the machine.

An image of the machine is formed in the printer driver configuration window based on the options that are installed.

(1) Select the options that are installed on the machine.

(2) Click the [OK] button.

To cancel the image settings, click the [Cancel] button.

6 Click the [OK] button in the printer properties window.

If automatic configuration fails

- You can check the options that are installed and the tray settings by printing out the "All Custom Setting List". (However, note that "Input Tray Options" must be set to the number of trays on the machine.)
  To print out the "All Custom Setting List", see the Operation Guide.
- Click the [Set Tray Status] button to check the settings of each.
  Set Tray Status: The "Paper Size Set" and "Paper type Set" of the machine are reflected in the settings shown here. Specify the size and type of paper loaded in each tray.

▶ When the PPD driver is installed

1 Click the [Start] button ( ), click [Control Panel], and then click [Devices and Printers] (or [View devices and printers]).

- In Windows XP/Server 2003, click the [start] button and then click [Printers and Faxes].
- In Windows 8/Server 2012, right-click in the startup window (or swipe upward from the bottom edge), then select [Taskbar] → [All Applications] → [Control Panel] → [Devices and Printers] → [Printers].
- In Windows 8.1, right-click the [Start] button on the desktop, click [Control Panel] and then click [Device and Printers].

If [Printers and Faxes] does not appear in the [start] menu in Windows XP, click the [start] button, click [Control Panel], click [Printers and Other Hardware], and then click [Printers and Faxes].

2 Open the printer properties window.

(1) Right-click the printer driver icon of the machine.

(2) Select [Printer properties].

In Windows XP, select [Properties].

3 Configure the printer driver for the options installed on the machine.

(1) Click the [Device Settings] tab.

(2) Configure each item based on the machine configuration.

The items and the procedures for configuring the items vary depending on the operating system version.

(3) Click the [OK] button.

You can check the options that are installed on the machine by printing out the "All Custom Setting List". (However, note that "Input Tray Options" must be set to the number of trays on the machine.)
To print out the "All Custom Setting List", see the Operation Guide.

INSTALLING THE PRINTER STATUS MONITOR

Printer Status Monitor is a printer utility that allows general users to check the current status of the machine on their computer screen, such as whether or not the machine is ready to print. The Printer Status Monitor shows error information such as paper misfeeds, printer configuration information as an image, the paper sizes that can be used, and the amount of paper remaining.
Administrator's rights are required to install the software.

The Printer Status Monitor cannot be used in the following situations:
- When the machine is connected by a USB cable.
- When printing to the machine using the IPP function. (Depending on the models, this function may not be available.)

When the software selection screen appears in step 6 of "OPENING THE SOFTWARE SELECTION SCREEN (FOR ALL SOFTWARE)" (page 8), perform the steps below.

1 Click the [Utility Software] button and then click the [Printer Status Monitor] button.

If you use the printer model, click the [Printer Status Monitor] button.

Software Selection
Select a software to be installed.
[Software]
[Display Readme]
Printer Status Monitor
This allows you to check the status of the network printer on your computer screen.
PC-Fax Driver
The PC-Fax driver lets you easily send faxes from your computer through the machine to another fax machine.
Scanner Driver (TWAIN)
TWAIN is an interface standard for scanners and other image input devices. By installing the TWAIN driver, you can scan using any application that supports the TWAIN standard.
< Back
Next >
Close

The scanner driver and PC-Fax driver are not available with the printer models.

2 Follow the on-screen instructions.

3 When the installation completed screen appears, click the [Finish] button.

To have the Printer Status Monitor start automatically when your computer is started, select the [Add this program to your Startup folder] checkbox ☑ and click the [Finish] button.

4 Click the [Close] button in the window of step 1.

After the installation, a message prompting you to restart your computer may appear. If this message appears, click the [Yes] button to restart your computer.

This completes the installation.
For the procedures for using the Printer Status Monitor, see the Help file. Follow these steps to view the Help file: Click the Windows [start] button, select [All Programs], select [SHARP Printer Status Monitor] and then select [Help]. In Windows 8/8.1/Server 2012, right-click in the startup window (or swipe upward from the bottom edge), then select [Taskbar] → [All Applications] → [Help] in the SHARP Printer Status Monitor menu.

INSTALLING THE SCANNER DRIVER

The scanner driver (TWAIN driver) can only be used when the machine is connected to a network. When the scanner driver is installed, PC scan mode of the image send function can be used.
Administrator's rights are required to install the software.

After performing step 1 through step 5 of "OPENING THE SOFTWARE SELECTION SCREEN (FOR ALL SOFTWARE)" (page 8), continue the steps below.

The scanner driver is not available with the printer models.

1 Click the [Utility Software] button and then click the [Scanner Driver (TWAIN)] button.

Software Selection
Select a software to be installed.
[Software]
[Display Readme]
Printer Status Monitor
This allows you to check the status of the network printer on your computer screen.
PC-Fax Driver
The PC-Fax driver lets you easily send faxes from your computer through the machine to another fax machine.
Scanner Driver (TWAIN)
TWAIN is an interface standard for scanners and other image input devices. By installing the TWAIN driver, you can scan using any application that supports the TWAIN standard.
< Back
Next >
Close

2 Follow the on-screen instructions.

Read the message in the window that appears and click the [Next] button.

3 When the finish setup window appears, click the [OK] button.

4 Click the [Close] button in the window of step 1.

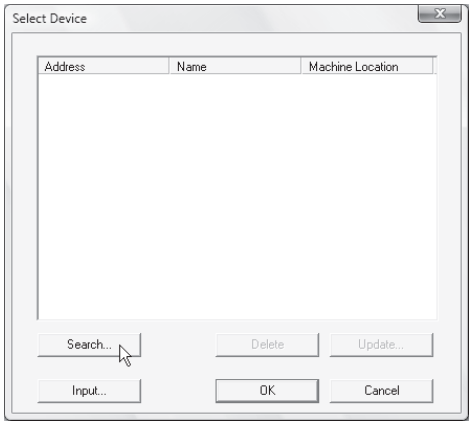
After the installation, a message prompting you to restart your computer may appear. If this message appears, click the [Yes] button to restart your computer.

This completes the installation. Next, configure the IP address of the machine in the scanner driver.
When the scanner driver is installed, the "Select Device" utility is also installed.
The IP address of the machine is configured in the scanner driver using "Select Device".

5 Click the [start] button, select [All Programs], select [SHARP MFP TWAIN K], and then select [Select Device].

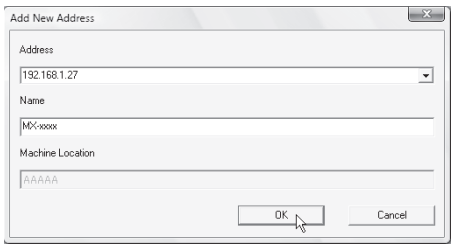
6 Click the [Search] button.

If you know the IP address, you can click the [Input] key and enter the IP address without searching.

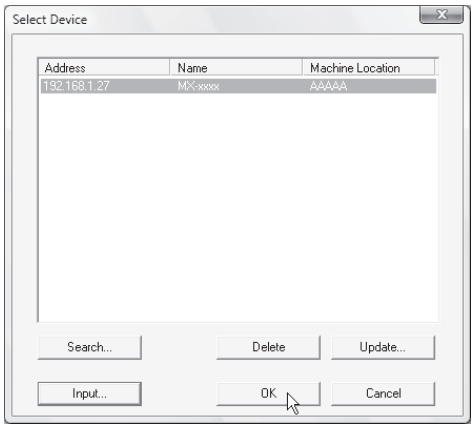


7 Select the IP address of the machine from the "Address" menu and click the [OK] button.

- Be sure to ask your system administrator (network administrator) for the IP address of the machine.
- The name (host name) or IP address of the machine can be directly entered in "Address".
- If the port number used by the scanner function of the machine has been changed, enter a colon ":" following the IP address and then enter the port number. (Normally the port number does not need to be entered.)



8 Click the [OK] button.



This completes the configuration of the scanner driver.

INSTALLING THE PS DISPLAY FONTS

Fonts that can be used by the PS printer driver are contained on the "PRINTER UTILITIES" CD-ROM that accompanies the PS3 expansion kit. Install these fonts as needed for the PS printer driver.

Depending on the models, the PS3 expansion kit is installed as standard.

1 Insert the "PRINTER UTILITIES" CD-ROM that accompanies the PS3 expansion kit into your computer's CD-ROM drive.

2 Click the [Start] button ( ), click [Computer], and then double-click the [CD-ROM] icon ( ).

- In Windows XP/Server 2003, click the [start] button, click [My Computer], and then double-click the [CD-ROM] icon.
- In Windows 8/Server 2012, right-click in the startup window (or swipe upward from the bottom edge), then select [Taskbar] → [All Applications] → [Computer] and then double-click [CD-ROM].
- In Windows 8.1, right-click the [Start] button on the desktop, click [File Explorer] and then double-click the [CD-ROM] icon.

3 Double-click the [Setup] icon ( ).

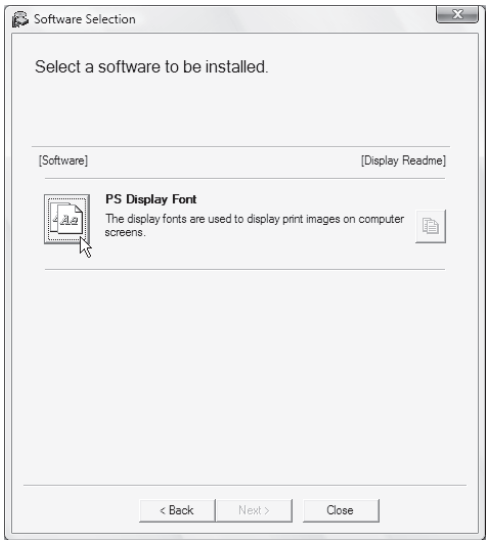
- In Windows 7/8/8.1/Server 2012, if a message screen appears asking you for confirmation, click [Yes].
- In Windows Vista/Server 2008, if a message screen appears asking you for confirmation, click [Allow].

4 The "SOFTWARE LICENSE" window will appear. Make sure that you understand the contents of the license agreement and then click the [Yes] button.

You can show the "SOFTWARE LICENSE" in a different language by selecting the desired language from the language menu. To install the software in the selected language, continue the installation with that language selected.

5 Read the message in the "Welcome" window and then click the [Next] button.

6 Click the [PS Display Font] button.



7 Follow the on-screen instructions.

8 Click the [Close] button in the screen of step 6.

CHANGING THE PORT

When using the machine in a Windows environment, follow the steps below to change the port when you have changed the IP address of the machine or have installed the PC-Fax driver when the machine is connected with a USB cable. If the machine is being used on an IPv6 network, follow the steps 1 to 3 below and see "Changing to a Standard TCP/IP Port" (page 32) for the remaining steps of the procedure to change the port.

1 Click the [Start] button ( ), click [Control Panel], and then click [Devices and Printers] (or [View devices and printers]).

- In Windows XP/Server 2003, click the [start] button and then click [Printers and Faxes].
- In Windows 8/8.1/Server 2012, right-click in the startup window (or swipe upward from the bottom edge), then select [Taskbar] → [All Applications] → [Control Panel] → [Devices and Printers] → [Printers].

If [Printers and Faxes] does not appear in the [start] menu in Windows XP, click the [start] button, click [Control Panel], click [Printers and Other Hardware], and then click [Printers and Faxes].

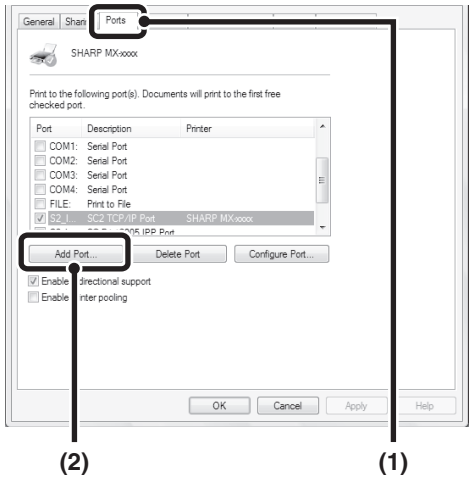
2 Open the printer properties window.

(1) Right-click the printer driver icon of the machine.

(2) Select [Printer properties].

In Windows XP, select [Properties].

3 Adding or changing a port.

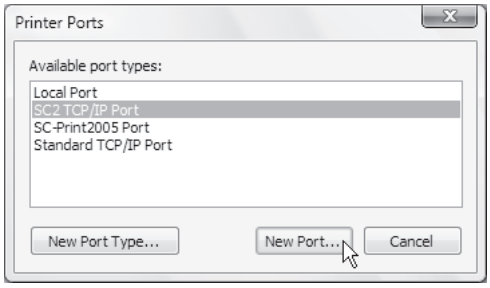


(1) Click the [Ports] tab.

(2) Click the [Add Port] button.

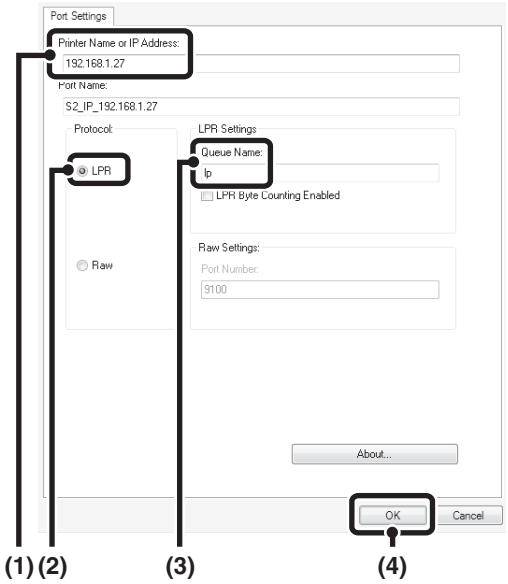
To change to a previously created port such as USB port, select the desired port (USB001, etc.) from the list and click the [Apply] button. This changes the port.

4 Select [SC2 TCP/IP Port] and then click the [New Port] button.



- The "SC2 TCP/IP Port" is added when the printer driver is installed using a "Custom installation" with "LPR Direct Print (Specify Address/Auto Search)" selected.
- If the printer driver is installed using a "Custom installation" with "IPP" selected, the [SC-Print2005 Port] is added. If you need to change the printer port when the machine is connected to an intranet or a wide area network (WAN) using the IPP function, select [SC-Print2005 Port], click the [New Port] button, and follow the on-screen instructions to create the port again.

5 Create the new port.



(1) Enter the machine's IP address.

☞ Checking the IP address of the machine (page 7)

(2) Make sure that [LPR] is selected.

(3) Make sure that [lp] is entered.

(4) Click the [OK] button.

6 Click the [Close] button in the screen of step 4.

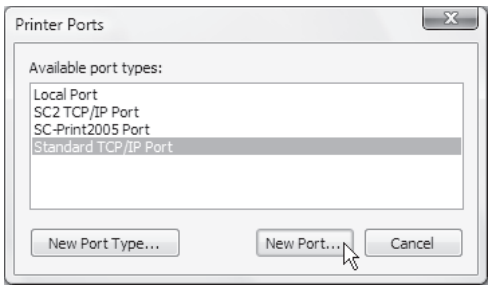
7 Make sure the created printer port is selected in the printer properties window and then click the [Apply] button.

▶ Changing to a Standard TCP/IP Port

If the machine is being used on an IPv6 network, change the port to a port created using the operating system's "Standard TCP/IP Port".

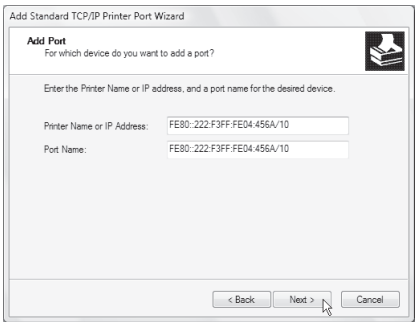
1 Follow steps 1 to 3 of "CHANGING THE PORT" (page 31).

2 Select [Standard TCP/IP Port] and then click the [New Port] button.

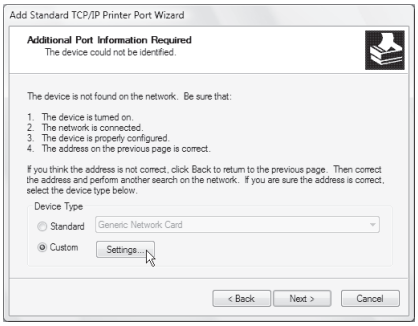


3 Click the [Next] button.

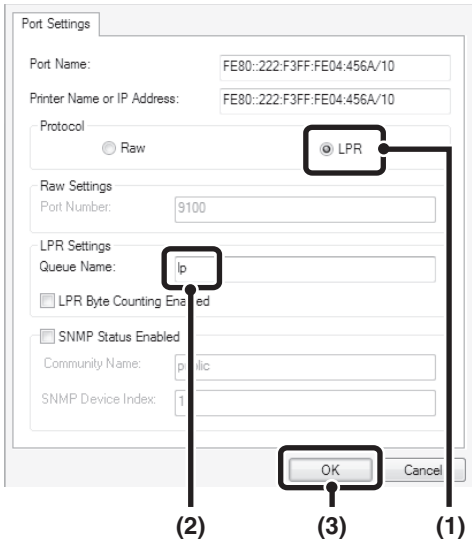
4 Enter the machine's IPv6 address in [Printer Name or IP Address] and click the [Next] button.


Add Standard TCP/IP Printer Port Wizard
Add Port
For which device do you want to add a port?
Enter the Printer Name or IP address, and a port name for the desired device.
Printer Name or IP Address:
FE80::222:F3FF:FE04:456A/10
Port Name:
FE80::222:F3FF:FE04:456A/10
< Back
Next >
Cancel

5 Select [Custom] and click the [Settings] button.


Add Standard TCP/IP Printer Port Wizard
Additional Port Information Required
The device could not be identified.
The device is not found on the network. Be sure that:
1. The device is turned on.
2. The network is connected.
3. The device is properly configured.
4. The address on the previous page is correct.
If you think the address is not correct, click Back to return to the previous page. Then correct the address and perform another search on the network. If you are sure the address is correct, select the device type below.
Device Type
Standard
Generic Network Card
Custom
Settings...
< Back
Next >
Cancel

6 Configure the port settings.



(1) Select [LPR].

(2) Enter [lp].

(3) Click the [OK] button.

7 Click the [Next] button in the screen of step 5.

8 Click the [Finish] button.

9 Click the [Close] button in the screen of step 2.

When using a port created with "Standard TCP/IP Port"

When using a port created using "Standard TCP/IP Port", in the screen that appears after you click the [Configure Port] button in the screen of step 3, make sure the [SNMP Status Enabled] checkbox is not selected (☐). If the [SNMP Status Enabled] checkbox is selected (☑), it may not be possible to print correctly.

3 SETUP IN A MACINTOSH ENVIRONMENT

This chapter explains how to install the PPD file to enable printing from a Macintosh and how to configure the printer driver settings.

- The printer expansion kit and PS3 expansion kit are required to use the machine as a printer in a Macintosh environment. In addition, the machine must be connected to a network. A USB connection cannot be used.
- Depending on the models, the printer expansion kit and the PS3 expansion kit are installed as standard.
- The scanner driver and PC-Fax driver cannot be used in a Macintosh environment.

MAC OS X

The explanations of screens and procedures are primarily for Mac OS X v10.8. The screens may vary in other versions of the operating system.

1 Insert the "Software CD-ROM" into your computer's CD-ROM drive.

2 Double-click the [CD-ROM] icon ( ) on the desktop.

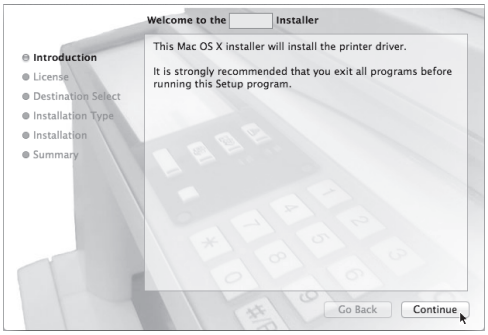
3 Double-click the [MacOSX] folder.

Before installing the software, be sure to read "ReadMe First". "ReadMe First" is in the [US-English] folder ([English] folder in areas other than the U.S.) in the [Readme] folder.

4 Double-click the folder corresponding to the versions of the operating system.

5 Double-click the [MX-C42] icon ( ).

6 Click the [Continue] button.



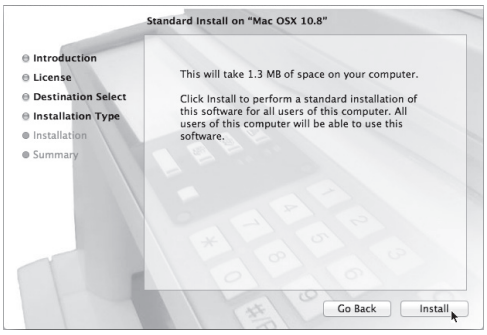
7 The License Agreement window will appear. Make sure that you understand the contents of the license agreement and then click the [Continue] button.

A message will appear asking you if you agree to the terms of the license. Click the [Agree] button.

- If the license appears in the different language, change the language in the language menu.
- In Mac OS X v10.4 to 10.7, select the hard drive and click the [Install] button. Be sure to select the hard drive on which your operating system is installed.
  In Mac OS X v10.5 to 10.7, you click the [Change Install Location] button if you change the hard drive which the printer driver is installed.

8 Click the [Install] button.

Installation begins.


Standard Install on "Mac OSX 10.8"
Introduction
License
Destination Select
Installation Type
Installation
Summary
This will take 1.3 MB of space on your computer.
Click Install to perform a standard installation of this software for all users of this computer. All users of this computer will be able to use this software.
Go Back
Install

If the "Authenticate" window appears, enter the password and click the [Install Software] button.
In Mac OS X v10.4 to 10.6, enter the password and click the [OK] button.

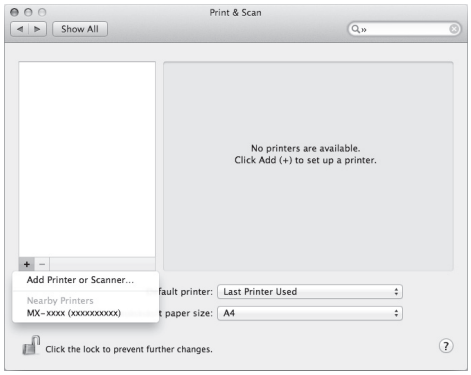
9 When the installation completed screen appears, click the [Close] button.

This completes the installation of the software. Next, configure the printer driver settings.

10 Click [System Preference] in the Apple menu ( ) and select [Print & Scan] ( ).

- If you are using Mac OS X v10.5 to 10.6, click [System Preferences] in the Apple menu ( ) and select [Print & Fax] ( ).
- In Mac OS X v10.4, select [Utilities] from the [Go] menu and double-click the [Printer Setup Utility]( )*. When the screen for adding a printer appears, click [Add] and then go to step 12.
  * If this is the first time you are installing a printer driver on your computer, a confirmation message will appear. Click the [Add] button.

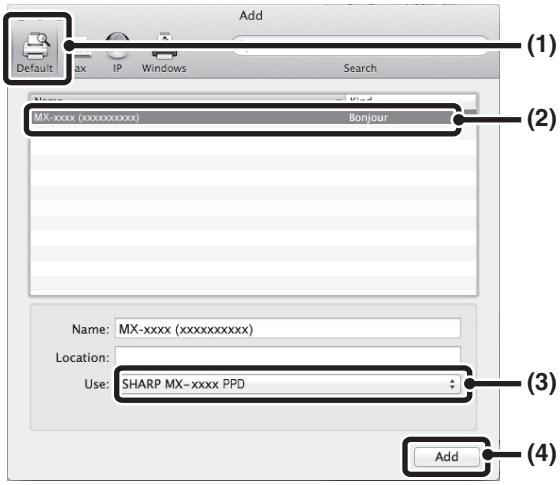
11 Click the + button and select "XXXX".



In Mac OS X v10.5 to 10.7, when the screen for adding a printer appears, click the + button.

12 Configure the printer driver.

If you wish to use the IPP function, see "Printing using the IPP function" (page 37) to configure the printer driver settings.



(1) Click the [Default] icon.

If you are using Mac OS X v10.4, click the [Default Browser] icon.

(2) Click the machine's model name.

- Using with AppleTalk:
  The machine's model name usually appears as [SCxxxxxx]*.
- Using with Bonjour:
  The machine's model name usually appears as [xxxxxx]*.

* "xxxxxx" is a sequence of characters that varies depending on your model.

(3) Make sure that the PPD file of your model is selected.

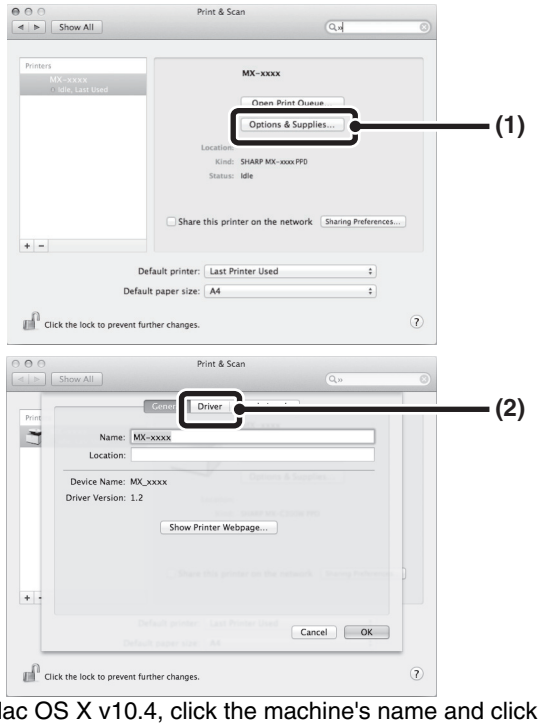
The PPD file of the machine is automatically selected.

(4) Click the [Add] button.

- Using with AppleTalk:
  The PPD file of the machine is automatically selected and the peripheral devices installed on the machine are detected and automatically configured.
- Using with Bonjour:
  The "Installable Options" screen appears. Select the machine configuration and click the [Continue] button.

The PPD file is installed in the following folders on the startup disk.
[Library] - [Printers] - [PPDs] - [Contents] - [Resources] - [en.lproj]

13 Click the [Option & Supplies] button and click the [Driver] tab.



In Mac OS X v10.4, click the machine's name and click the [Show Info] icon.

14 Select the machine configuration.

If you selected [Auto Select] in (3) of step 12, the machine configuration is detected and automatically configured. Check the configured settings to make sure they are correct.

(1) Select the options that are installed on the machine.

In Mac OS X v10.4, before you are selecting the option, select [Installable Options].

(2) Click the [OK] button.

If you are using Mac OS X v10.4, click the [Apply Changes] button.

(3) Click to close the window.

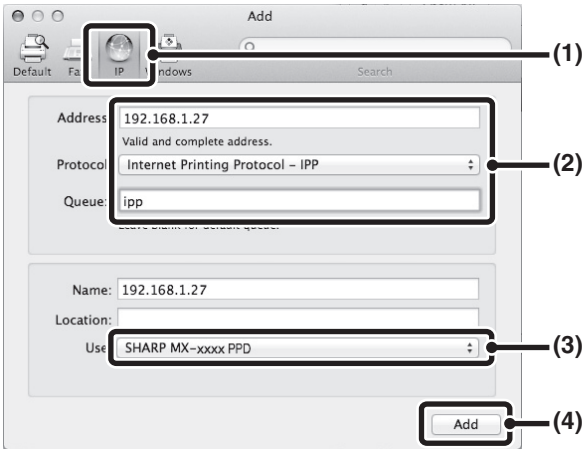
You can check the options that are installed on the machine by printing out the "All Custom Setting List". (However, note that "Input Tray Options" must be set to the number of trays on the machine.) To print out the "All Custom Setting List", see the Operation Guide.

This completes the configuration of the printer driver.

▶ Printing using the IPP function

The machine can print using the IPP function. When the machine is in a remote location, this function can be used in place of the fax function to print a higher quality image than a fax. If you wish to use the IPP function, follow these steps to select the PPD file when configuring the printer driver (step 12 on page 36).

Depending on the models, this function may not be available.



(1) Click the [IP] icon.

If you are using Mac OS X v10.4, click the [IP Printer] icon.

(2) Select [Internet Printing Protocol] in "Protocol". Enter the address of the machine (IP address or domain name) and the queue name.

Enter "ipp" in "Queue".

(3) Select [Select a driver to use] (or [Select Printer Software]) from "Print Using" and click the PPD file for your model.

If you are using Mac OS X v 10.5 to 10.7, select [Sharp] in "Print Using" and click the PPD file of your model.

(4) Click the [Add] button.

The screen for the machine configuration appears. Make sure that the settings are correct and click the [OK] button.
If you are using Mac OS X v10.5 to 10.6, click the [Continue] button.

☞ Checking the IP address of the machine (page 7)

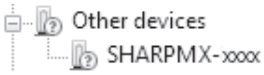
4 TROUBLESHOOTING

WHEN INSTALLATION WAS NOT SUCCESSFUL

This section provides solutions to possible installation problems. See the following table of contents to locate the appropriate page for your question or problem.

- The software cannot be installed. 38
- The machine is not detected (when connected to a network). 38
- The plug and play screen does not appear (USB connection in Windows). 39
- The printer driver is not installed correctly by plug and play (USB connection in Windows). 39
- The printer driver cannot be installed (Windows XP/Server 2003) 40

Problem	Point to check	Solution
The software cannot be installed.	Is there sufficient free space on your hard drive?	Delete any unneeded files and applications to increase free space on your hard drive.
	Are you using an operating system that is not supported?	Make sure that the software can run on your operating system.
The machine is not detected (when connected to a network).	Is the IP address of the machine configured?	If the IP address of the machine is not configured, the machine will not be detected. Make sure that the IP address is configured correctly in "Network Settings" in the machine's system settings (administrator). →System Settings (Administrator) > "Network Settings"
	Is your computer connected to the same network as the machine?	Windows: If the machine and your computer are not connected to the same local area network, the machine will not be detected. If the two are connected to different sub-networks, click the [Specify condition] button and enter the machine's name (host name) or IP address to search for the machine. Macintosh: If multiple AppleTalk zones exist, select the zone to which the machine is connected from the menu.

Problem	Point to check	Solution
The machine is not detected (when connected to a network).	Is the machine power on?	If the machine is powered off, it will not be detected. Switch on the main power switch. (In Windows, search again after powering on the machine.)
	Is your computer connected correctly to the machine?	Make sure that the cable is connected securely to the LAN connectors on your computer and the machine. Check the connections at the hub as well. ☞ CONNECTING TO A NETWORK (page 7)
The plug and play screen does not appear (USB connection in Windows).	Is the machine power on?	When a USB cable is connected, make sure the power of the machine is "ON" and then connect a USB cable to the machine. When the machine is not powered on, switch on the main power switch.
	Can your computer use a USB connection?	Check your computer whether or not a USB interface can be used on the Device Manager in your computer. (For information on "Device Manager", see Help in Windows.) If USB can be used, your controller chipset type and root hub will appear in "Universal Serial Bus controllers" in "Device Manager". (The items that appear will vary depending on your computer.) If these two items appear, USB should be useable. If a yellow exclamation point appears next to "Universal Serial Bus controllers" or the two items do not appear, refer to your computer manual or check with the manufacturer of your computer to enable USB and then reinstall the printer driver.
The printer driver is not installed correctly by plug and play (USB connection in Windows).	Did you connect the machine to your computer before installing the printer driver?	If the machine was connected to your computer with a USB cable before the printer driver was installed from the installer, check if information on the unsuccessful installation remains in "Device Manager". (For information on "Device Manager", see Help in Windows.) If the model name of the machine appears in "Other devices" in "Device Manager", delete it, restart your computer, and install the printer driver again. 

▶ The printer driver cannot be installed (Windows XP/Server 2003)

If the printer driver cannot be installed on Windows XP/Server 2003, follow the steps below to check your computer settings.

1 **Click the [start] button and then click [Control Panel].**

2 **Click [Performance and Maintenance] and then [System].**

3 **Click the [Hardware] tab and then the [Driver Signing] button.**

4 **Check the settings in "What action do you want Windows to take?"**

Driver Signing Options
During hardware installation, Windows might detect software that has not passed Windows Logo testing to verify its compatibility with Windows. (Tell me why this testing is important.)
What action do you want Windows to take?
Ignore - Install the software anyway and don't ask for my approval
Warn - Prompt me each time to choose an action
Block - Never install unsigned driver software
Administrator option
Make this action the system default
OK
Cancel

If [Block] is selected, the printer driver cannot be installed. Select [Warn] and install the printer driver again.

REMOVING THE SOFTWARE

To remove the printer driver or software installed using the installer, follow the steps below.

Windows

1 Click the [start] button and then click [Control Panel].

In Windows 8/8.1/Server 2012, right-click in the startup window (or swipe upward from the bottom edge), then select [Taskbar] → [All Applications] → [Control Panel].

2 Click [Uninstall a program].

In Windows XP/Server 2003, click [Add or Remove Programs].

3 Select the program or driver that you wish to delete.

For more information, see the manual for the operating system or Help.

4 Restart your computer.

Mac OS X

1 Delete the printer that uses the machine's PPD file from the printer list.

To show the printer list, see step 10 and 11 of "MAC OS X" (page 34).

2 Delete the PPD file.

The PPD file has been copied to the following folder on the startup disk.
[Library] - [Printers] - [PPDs] - [Contents] - [Resources] - [en.lproj]
Delete the PPD file of the machine from this folder.

3 Delete the installation information.

The installation information file has been copied to the following folder on the startup disk.
[Library] - [Receipts]
Delete the [MX-C42.pkg] file from this folder.

Software Setup Guide

SHARP

SHARP CORPORATION

SSG-ALL-EX-Z1